

ABSTRACT

An enhancer that is added to a receiver to increase the dynamic range thereof. The enhancer comprises a downconverter for converting a received signal to an intermediate frequency of the receiver, and a coupler for sending the downconverted signal to the receiver. The dynamic range of the enhancer is greater than the dynamic range of the receiver such that the receiver can now receive strong signals via the enhancer. The downconverter may comprise a local oscillator that is operative to generate a local oscillator signal and a mixer operative to mix the received signal with the local oscillator signal in order to downconvert the received signal to the intermediate frequency of the receiver. In this respect, the enhancer may be an add-on device which is plugged directly into the antenna port of the receiver and immediately increases the dynamic range thereof.